

AD-A124 881 SWITCHING DEVICES(U) FOREIGN TECHNOLOGY DIV
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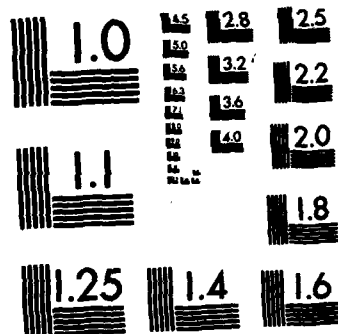
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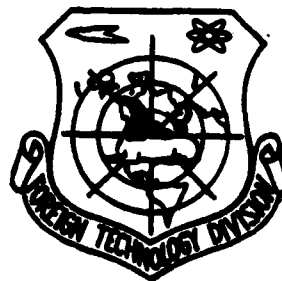
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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FOREIGN TECHNOLOGY DIVISION



SWITCHING DEVICES



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EDITED TRANSLATION

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SWITCHING DEVICES

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Date 18 Jan 19 83

U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

Block	Italic	Transliteration	Block	Italic	Transliteration
А а	<i>А а</i>	A, a	Р р	<i>Р р</i>	R, r
Б б	<i>Б б</i>	B, b	С с	<i>С с</i>	S, s
В в	<i>В в</i>	V, v	Т т	<i>Т т</i>	T, t
Г г	<i>Г г</i>	G, g	У у	<i>У у</i>	U, u
Д д	<i>Д д</i>	D, d	Ф ф	<i>Ф ф</i>	F, f
Е е	<i>Е е</i>	Ye, ye; E, e*	Х х	<i>Х х</i>	Kh, kh
Ж ж	<i>Ж ж</i>	Zh, zh	Ц ц	<i>Ц ц</i>	Ts, ts
З з	<i>З з</i>	Z, z	Ч ч	<i>Ч ч</i>	Ch, ch
И и	<i>И и</i>	I, i	Ш ш	<i>Ш ш</i>	Sh, sh
Й й	<i>Й й</i>	Y, y	Щ щ	<i>Щ щ</i>	Shch, shch
Н н	<i>Н н</i>	K, k	Ъ ъ	<i>Ъ ъ</i>	"
Л л	<i>Л л</i>	L, l	Ы ы	<i>Ы ы</i>	Y, y
М м	<i>М м</i>	M, m	Ь ь	<i>Ь ь</i>	'
Н н	<i>Н н</i>	N, n	Э э	<i>Э э</i>	E, e
О о	<i>О о</i>	O, o	Ю ю	<i>Ю ю</i>	Yu, yu
П п	<i>П п</i>	P, p	Я я	<i>Я я</i>	Ya, ya

*ye initially, after vowels, and after ъ, ѣ; e elsewhere.
When written as ѣ in Russian, transliterate as yě or ě.

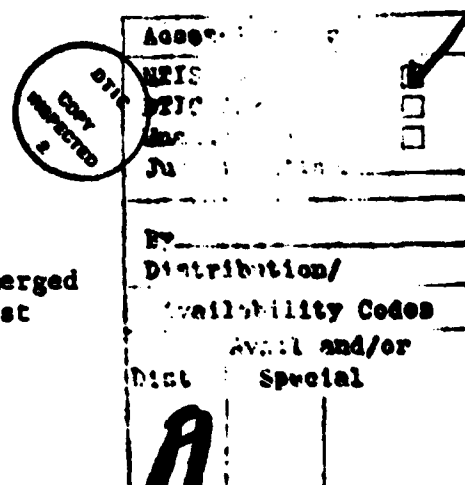
RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

Russian	English	Russian	English	Russian	English
sin	sin	sh	sinh	arc sh	sinh ⁻¹
cos	cos	ch	cosh	arc ch	cosh ⁻¹
tg	tan	th	tanh	arc th	tanh ⁻¹
ctg	cot	cth	coth	arc cth	coth ⁻¹
sec	sec	sch	sech	arc sch	sech ⁻¹
cosec	csc	csch	csch	arc csch	csch ⁻¹

Russian	English
rot	curl
lg	log

GRAPHICS DISCLAIMER

All figures, graphics, tables, equations, etc. merged into this translation were extracted from the best quality copy available.



SWITCHING DEVICES

Basic Parameters

GOST 17464-72

Decree of the State Committee of Standards of the Council of Ministers of the USSR from 15 January 1972. No. 197, period of putting into practice is established from 1 January 1973

Noncompliance of the standard is punishable by law

1. This standard applies to the newly developed and modernized switching devices with manual and mechanical control: throw-over switches (toggles) and rotating (wafer-type and wiper-type), slide, cam, push-button switches and microswitches designed for use in electrical circuits of direct and alternating currents of electronic equipment. The standard establishes the permissible combinations of values of the basic parameters and also series of values of the time constant of the inductive circuit of the load and number of cycles of the switches (wear resistance).

2. The permissible combinations of values of the basic parameters must conform to those indicated in the table (denoted by the "+" sign).

3. For the switching devices on the base of magnetically controllable contacts, combinations of minimal and maximal values of the currents and voltages and maximal values of power are established in conformity with the technical specifications of the magnetically controllable contacts within the sub-bands established in the table.

4. In cases technically substantiated, the switching devices can be developed for several sub-bands indicated in the table.

5. In the modernization of the serially produced switching devices, combinations of values of sub-bands of current and voltage are established in conformity with the table, and here they must be no worse than the values of the serially produced.

6. Values of the time constant of the inductive circuit of the load of direct current must conform to the following series: 5, 10, 15, 20 ...ms.

7. Values of the wear resistance must conform to the following series: 1000, 1500, 2500, 5000, 10,000.... Subsequent values of the series are obtained by multiplying these numbers by 10.

Table

1) Поддиапазоны тока, А		2) Поддиапазоны напряжения, В						3) Максимальная коммутационная мощность	
		I	II	III	IV	V	VI	4)	5)
		$1 \cdot 10^{-6} - 36$	$1 \cdot 10^{-4} - 36$ $1 \cdot 10^{-3} - 36$	$3 \cdot 10^{-2} - 36$ $(5 \cdot 10^{-2} - 80)$	$0,1 - 127$ $(3 - 127)$	$0,1 - 250$ $(3 - 250)$	$1 - 400$ $(2 - 400)$	Вт	В·А
I	$1 \cdot 10^{-12} - 1 \cdot 10^{-2}$	+	-					-	-
II	$1 \cdot 10^{-6} - 0,10$	-	-	+				-	-
III	$1 \cdot 10^{-6} - 0,25$		-	+	+			-	-
IV	$1 \cdot 10^{-4} - 0,50$			-	-	+	-	36	36 36*
V	$1 \cdot 10^{-3} - 1,00$				+	+	-	36	100 60*
VI	$1 \cdot 10^{-2} - 2,00$				+	+	+	65	200 90*
VII	0,10 - 4,00					+	-	125	400
VIII	0,10 - 6,00					+	-	200	630
IX	0,10 - 10,00					+	-	325	1000

6)* Разработка коммутационных изделий с сочетаниями основных параметров, указанных в скобках, производится в технически обоснованных случаях.

7)** Значения мощности [расп] относятся только к газетным переключателям.

Key: 1) Current sub-bands, A; 2) Voltage* sub-bands, V; 3) Maximum switchable power; 4) W; 5) V·A; 6) *Development of switching devices with combinations of basic parameters indicated parentheses is produced in cases technically substantiated. 7) **Power values apply only to wafer-type switches.